

Name of Work : IMPROVEMENTS TO ROADS AND DRAINS AT KAREKALLU AND VINAYAKA NAGARA IN WARD NO.14, BAGALAGUNTE, DASARAHALLI-SUB-DIVISION
SL. NO. 05, G.O. NO. 87

DASARAHALLI DIVISION

T DASARAHALLI SUB DIVISION

Estimate Cost:-99.00 Lakhs,

JOB CODE: 014-20-000015

Head of Account:- P-3727 SC-SP/TSP MAUKYAMANTRIGALA NAVA
BENGALURU YOJANE

Indent No.

Agency:-Sri M/S NANDINI ENTERPRISES,#1504, 4TH C MAIN, 2ND STAGE
MAHALAXMIPURAM, BANGALORE.

Agreement No:- : EE/DD/AGR/412/2019-20

Date-01-10-2019

DETAILED MEASUREMENTS

Recorded on:- 11/3/20

Pre measurements

BOQ Item No	Description Of item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
1	Removing and Stocking of BS slab. All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.								
	DESILTING OF DRAIN								
	1 - L/S	1	1	136.50	0.90		122.850		
	2 - R/S	1	1	7.60	0.90		6.840		
	3 - B/S	2	1	26.80	0.90		48.240		
	4 - R/S	1	1	46.20	0.90		41.580		
	4 - L/S	1	1	41.10	0.90		36.990		
	5 - R/S	1	1	79.10	0.90		71.190		
	5 - L/S	1	1	72.50	0.90		65.250		
	6 - R/S	1	1	37.00	0.90		33.300		
	6 - L/S	1	1	38.00	0.90		34.200		
	7 - B/S	2	1	63.20	0.90		113.760		
				Total Qty			574.200	574.200	Cum
2	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tipplers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301								
	EXCAVATION FOR DRAIN								
	1 - L/S	1	1	136.50	0.90	0.45	55.283		
	2 - R/S	1	1	7.60	0.90	0.45	3.078		
	3 - B/S	2	1	26.80	0.90	0.45	21.708		
	4 - R/S	1	1	46.20	0.90	0.45	18.711		
	4 - L/S	1	1	41.10	0.90	0.45	16.646		
	5 - R/S	1	1	79.10	0.90	0.45	20.066		
	5 - L/S	1	1	72.50	0.90	0.45	29.363		
	6 - R/S	1	1	37.00	0.90	0.45	14.985		
	6 - L/S	1	1	38.00	0.90	0.45	15.390		
	7 - B/S	2	1	63.20	0.90	0.45	10.162		
	EXCAVATION FOR DECK SLAB CULVERT								
				1.20		0.45	4.968		
	ROAD FORMATION								

EXECUTIVE ENGINEER-4
KRIIDL, BBMP DIVISION
BENGALURU-560 04



ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿ.ಬಿ.ಎಂ.ಸಿ.

BOQ Item No	Description Of item of work	Nos		Measurements			Depth	Sub Qty	Total Qty	Unit			
				Length	Breath								
1	3	4	5	6	7		8	9	10	11			
	ROAD-1	1		12.80	8.02	+	6.35	0.400	36.787				
					2								
		1		30.00	6.35	+	4.73	0.400	66.480				
					2								
		1		30.00	4.73	+	4.73	0.400	56.760				
					2								
		1		10.00	4.73	+	5.55	0.400	20.560				
					2								
		1		2.50	5.55	+	8.10	0.400	6.825				
					2								
	ROAD-2	1		30.00	5.45	+	6.55	0.400	72.000				
					2								
		1		12.10	6.55	+	6.95	0.400	32.670				
					2								
		1		25.75	6.95	+	7.55	0.400	74.675				
					2								
	ROAD-3	1		30.00	5.60	+	5.55	0.400	66.900				
					2								
		1		9.00	5.55	+	6.00	0.400	20.790				
					2								
		1		30.00	6.00	+	5.35	0.400	68.100				
					2								
		1		15.00	5.35	+	3.35	0.400	26.100				
					2								
	ROAD-4	1		30.00	5.00	+	5.00	0.400	60.000				
					2								
		1		32.00	5.00	+	5.30	0.400	65.920				
					2								
	ROAD-5	1		11.60	4.95	+	5.15	0.400	23.432				
					2								
	ROAD-6	1		30.00	6.85	+	6.25	0.400	78.600				
					2								
		1		2.90	6.25	+	6.05	0.400	7.134				
					2								
		1		7.00	6.05	+	7.25	0.400	18.620				
					2								
		1		25.40	7.25	+	7.05	0.400	72.644				
					2								
	ROAD-7	1		14.30	4.85	+	5.10	0.400	28.457				
					2								
		1		30.00	5.10	+	4.75	0.400	59.100				
					2								
		1		2.30	4.75	+	5.35	0.400	4.646				
					2								
		1		17.40	5.35	+	5.30	0.400	37.062				
					2								
	DEDUCTION DUE TO CD	-1		9.20	1.20	+	1.20	0.400	4.416				
					2								
					Total Qty						1263.204	1263.204	Cum
3	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH Chapter 3												
	EXCAVATION FOR KERBS												

Ch

ERIDL, BBMP DIVISION

BENGALURU-560 010



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ

BOQ Item No	Description Of item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
	1 - L/S	1	1	136.50	0.20	0.10	2.730		
	2 - R/S	1	1	7.60	0.20	0.10	0.152		
	3 - B/S	2	1	26.80	0.20	0.10	1.072		
	4 - R/S	1	1	46.20	0.20	0.10	0.924		
	4 - L/S	1	1	41.10	0.20	0.10	0.822		
	5 - R/S	1	1	79.10	0.20	0.10	1.582		
	5 - L/S	1	1	72.50	0.20	0.10	1.450		
	6 - R/S	1	1	37.00	0.20	0.10	0.740		
	6 - L/S	1	1	38.00	0.20	0.10	0.760		
	7 - B/S	2	1	63.20	0.20	0.10	2.528		
				Total Qty			12.760	12.760	Cum

Assistant Engineer-

14



12/8

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Assistant Executive Engineer

T Dasarahalli Sub- Division

BBMP

BOQ Item No	Description Of item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11

measurement continued on:- 26/3/20

13 KSRRB M600-1. Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016, aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601 of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver.

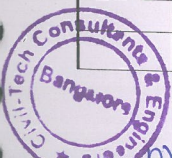
ROAD FORMATION

ROAD-1	1	12.80	8.02	+	6.35	0.100	9.197		
			2						
	1	30.00	6.35	+	4.73	0.100	16.620		
			2						
	1	30.00	4.73	+	4.73	0.100	14.190		
			2						
	1	10.00	4.73	+	5.55	0.100	5.140		
			2						
	1	2.50	5.55	+	8.10	0.100	1.706		
			2						
ROAD-2	1	30.00	5.45	+	6.55	0.100	18.000		
			2						
	1	12.10	6.55	+	6.95	0.100	8.168		
			2						
	1	25.75	6.95	+	7.55	0.100	18.669		
			2						
ROAD-3	1	30.00	5.60	+	5.55	0.125	20.906		
			2						
	1	9.00	5.55	+	6.00	0.125	6.497		
			2						
	1	30.00	6.00	+	5.35	0.125	21.281		
			2						
	1	15.00	5.35	+	3.35	0.100	6.525		
			2						
ROAD-4	1	30.00	5.00	+	5.00	0.100	15.000		
			2						
	1	32.00	5.00	+	5.30	0.100	16.480		
			2						
ROAD-5	1	11.60	4.95	+	5.15	0.100	5.838		
			2						
ROAD-6	1	30.00	6.85	+	6.25	0.100	19.650		
			2						
	1	2.90	6.25	+	6.05	0.100	1.784		
			2						
	1	7.00	6.05	+	7.25	0.100	4.655		
			2						
	1	25.40	7.25	+	7.05	0.100	18.161		
			2						
ROAD-7	1	14.30	4.85	+	5.10	0.100	14.144		
			2						
	1	30.00	5.10	+	4.75	0.100	14.775		
			2						
	1	2.30	4.75	+	5.35	0.100	1.162		

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕಾರ್ಯಪಾಲಕ ವಿಭಾಗ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕಾರ್ಯಪಾಲಕ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಪಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ



EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

BOQ Item No	Description Of item of work	Nos		Measurements							
				Length	Breath			Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7			8	9	10	11
					2						
		1		17.40	5.35	+	5.30	0.100	9.266		
					2						
	DEDUCTION DUE TO CD	-1		9.20	1.20	+	1.20	0.100	-1.104		
					2						
				Total Qty				259.698	259.698	Cum	


 Assistant Engineer-
 14
 26/3/20


 Assistant Executive Engineer
 T Dasarahalli Sub- Division
 BBMP




 EXECUTIVE ENGINEER-4
 KRIDL, BBMP DIVISION
 BENGALURU-560 010

BOQ Item No	Description Of item of work	Nos		Measurements					
				Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7	8	9	10	11

measurement continued on:- 9/4/20

15

Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum, Coarse and fine aggregate conforming to IS 383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rammers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermeable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour, hire charges of machineries, all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum.

CC ROAD

ROAD-1

1

12.80

8.02

+

6.35

0.150

13.795

2

1

30.00

6.35

+

4.73

0.150

24.930

2

1

30.00

4.73

+

4.73

0.150

21.285

2

1

10.00

4.73

+

5.55

0.150

7.710

2

1

2.50

5.55

+

8.10

0.150

2.559

2

ROAD-2

1

30.00

5.45

+

6.55

0.150

27.000

2

1

12.10

6.55

+

6.95

0.150

12.251

2

1

25.75

6.95

+

7.55

0.150

28.003

2

ROAD-3

1

30.00

5.60

+

5.55

0.150

25.088

2

1

9.00

5.55

+

6.00

0.150

7.796

2

1

30.00

6.00

+

5.35

0.150

25.538

2

1

15.00

5.35

+

3.35

0.150

9.788

2

ROAD-4

1

30.00

5.00

+

5.00

0.150

22.500

2

1

32.00

5.00

+

5.30

0.150

24.720

2

ROAD-5

1

11.60

4.95

+

5.15

0.150

8.787

2

ROAD-6

1

30.00

6.85

+

6.25

0.150

29.475

2

1

2.90

6.25

+

6.05

0.150

2.675

2

1

7.00

6.05

+

7.25

0.150

6.983

2

EXECUTIVE ENGINEER-4
BMP DIVISION
BANGALURU-560 010



ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಬಿ. ವಾಸುದೇವ್ ಉಪ ನಿರ್ದೇಶಕರು
ಜಾಗರಣಾ, ಬಿ.ಬಿ.ಎಂ.ಸಿ.
ಬೆಂಗಳೂರು-560073

BOQ Item No	Description Of item of work	Nos		Measurements				Sub Qty	Total Qty	Unit		
				Length	Breath		Depth					
1	3	4	5	6	7		8	9	10	11		
		1		25.40	7.25	+	7.05	0.150	27.242			
					2							
	ROAD-7	1		14.30	4.85	+	5.10	0.150	10.671			
					2							
		1		30.00	5.10	+	4.75	0.150	22.163			
					2							
		1		2.30	4.75	+	5.35	0.150	1.742			
					2							
		1		17.40	5.35	+	5.30	0.150	13.898			
					2							
	DEDUCTION DUE TO CD	-1		9.20	1.20	+	1.20	0.150	-1.656			
					2							
				Total Qty				374.942	374.942	Cum		
16	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc.											
	KERB STONES											
				Length	÷ 0.45			NO OF KERB STONE				
	1 - L/S	1	1	136.50	303.00			303.000				
	2 - R/S	1	1	7.60	17.00			17.000				
	3- B/S	2	1	26.80	119.00			119.000				
	4 - R/S	1	1	46.20	103.00			103.000				
	4 - L/S	1	1	41.10	91.00			91.000				
	5 - R/S	1	1	79.10	176.00			176.000				
	5 - L/S	1	1	72.50	161.00			161.000				
	6 - R/S	1	1	37.00	82.00			82.000				
	6 - L/S	1	1	38.00	84.00			84.000				
	7- B/S	2	1	63.20	281.00			281.000				
				Total Qty				1417.000	1417.000	NOS		
17	KSRRB M800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications, MORTH Chapter 8											
	KERB PAINTING											
	1 - L/S	1	2	136.50	0.35			95.550				
	2 - R/S	1	2	7.60	0.35			5.320				
	3- B/S	2	2	26.80	0.35			37.520				
	4 - R/S	1	2	46.20	0.35			32.340				
	4 - L/S	1	2	41.10	0.35			28.770				
	5 - R/S	1	2	79.10	0.35			55.370				
	5 - L/S	1	2	72.50	0.35			50.750				
	6 - R/S	1	2	37.00	0.35			25.900				
	6 - L/S	1	2	38.00	0.35			26.600				
	7- B/S	2	2	63.20	0.35			88.480				
				Total Qty				446.600	446.600	Sqm		

Assistant Engineer-

14



Assistant Executive Engineer

T Dasarahalli Sub- Division

BBMP

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010